THE TECH

VOL. XXVII. No. 28 BOSTON, MASS., WEDNESDAY, DECEMBER 4, 1907 PRICE THREE CENTS

TECH WILL RACE B. A. A. TONIGHT.

ONE-MILE RELAY AT PARK SQUARE.

Other Men Are Entered In Open Events.

Technology will compete tonight in a relay race with the B. A. A. at the Park Square Rink. The trials for the team to represent the Institute in this event were held last Monday at the Gym. The distance to be run this evening will be one mile in length and will be divided into relays of unequal length. The first man will run 360 yards and the remaining runners will cover 480 yards apiece.

Harold Lockett made the best time for the short distance and W. C. Salisbury and H. W. Blackburn made the team as men to run the longer relays. The last place on the team will go to either G. B. Cummings or to W. J. Seligman. Both of these men made equally good time so one will run and the other will be retained as substitute. Eleven Tech men are entered in the other open events.

1908 CALENDAR OUT NEXT WEEK.

Tech's "Red Letter Days" Are Marked In Red.

Technology's first official calendar for the year 1908 will make its initial appearance about the first of the coming week.

A departure will be made this year which will prove decidedly advantageous to all Tech men, namely the designation of Tech's "Red Letter Days," that is, all dates which are of particular importance to Tech men will be printed in red ink. This list will include such dates as vacations, examination periods and Junior Week, including all the numerous festivities of the period and their respective dates.

The calendar will consist of six pages on silver grey mounts with conventional designs of the heads of several departments done in black on each page. The title will be printed in cardinal. Below the sketches will be arranged two tablets for as many months, containing in addition to the customary data, a complete schedule of the year's events.

The cover design will consist of a half-tone cut of the portico of Rogers taken by Professor Derr. This will be mounted upon silver grey and will be set off by another half-tone of the official Technology seal.

PRES. NOYES WILL SPEAK.

To Give Choice of Course Lecture

A "choice of course" lecture will be given to the Freshmen probably next Wednesday by President Noyes in 6 Lowell at 4 P. M. President Noyes will give a general lecture relating to all the courses, and for more definite information regarding each special course the heads of departments will see men in their offices.

PROM BALLOTS ARE OUT.

Fourteen Are Nominated.

The ballots for the junior prom committee have been sent out to every member of the junior class. The following names are on the ballot: R. H. Allen, C. J. Belden, Gladys Blake, A. L. Dickerman, B. W. Dow, G. I. Emerson, M. Flagg, W. B. Jenkins, W. W. King, S. N. McCain, John Miller, L. D. Nisbet, C. H. Pope, A. L. Shaw.

CATHOLIC CLUB.

Father McCarthy on Modernism.

At a meeting of the Catholic Club last night, Father McCarthy spoke on modernism and the dangers that are arising from it. After the talk refreshments were served. Twenty-five members were present.

"SUCCESS IS DUE TO THE MAN AND NOT TO THE INSTITUTION."

PROF. SWAIN, IN ARTICLE ON COURSE I, SAYS A DEGREE IS A HELP AT FIRST BUT NOT AFTER TEN YEARS.

"Each Student Should Avail Himself of His Opportunities to the Utmost and Success will be Within His Grasp."

The aim of the course in civil engineering is to give the student such a training in fundamental principles that he will have some power and initiative in solving the new problems which he will meet in his professional practice. Many men learn in school only to solve the particular problems they are shown how to solve, and gain no ability to apply general principles intelligently to cases which are new to them.

The main object of Course I is to do something to develop this power. The man who can only treat the problems which have been explained to him is distinctly limited in capacity and usefulness, while the man who has thoroughly mastered a general principle has almost unlimited power.

PROF. GEORGE F. SWAIN

A great deal of engineering is mere copying of the work of others and in this way errors are perpetuated and principles wrongly applied. The intelligent engineer should think for himself. Only a very small proportion of the problems which will be met with in practice can be studied in a course of four years. The attempt is therefore made to show the student the importance of discerning the fundamental principles involved in each problem and of mastering them thoroughly.

As regards the curriculum, with the exception of the change introduced last year, there has been little change in the last ten or fifteen years. Some details formerly taught have been eliminated to make room for new principles, as for instance those relating to reinforced concrete.

It is believed that the ground covered by the curriculum as it has existed for twenty years has been all that the average student could properly assimilate and no attempt has been made to cover a larger field. If the student wishes advanced instruction in any of the subjects of the course, he can obtain it by taking a fifth year.

But a year ago an important change in the curriculum of Courses I and XI was introduced, by which one year of modern language was eliminated from the course, enabling the instruction in mechanics to be begun at the middle or the second year instead of at the beginning of the third year, and allowing a corresponding increase in the time given to structures in the third and fourth years.

This increase of time, however, will be devoted mainly to additional drill in fundamental principles, and not to any extension of the ground covered, which is already large enough.

One general tendency in modern education is to crowd more and more into the various courses, corresponding with the advances in the sciences and arts. This tendency has been resisted in Course I, so far as practicable, and the main emphasis is laid upon fundamental principles.

Lecture courses have also been for the most part avoided; text books are generally required, and the class-room exercises are largely recitations and quizzes designed to help the student to see the true inwardness of things.

I have frequently had occasion to call attention to the fact that civil engineering is a very broad profession. The graduates of the department therefore find occupation in varied fields. The demand for these graduates has for many years far exceeded the supply, and I cannot remember a year in which we have not had many more applications for men than we have been able to fill.

The past year has been a remarkable one in this respect, and although a large class was graduated last June, probably twice or three times as many men could have been placed. The demand for men in any branch of engineering fluctuates, of course, with the fluctuations of general business, and a slowing-up is now in progress.

The past few years have been so remarkably prosperous, and men for technical positions have been so scarce, that employers of engineers have been obliged to take anybody they could get, and inefficient men have found positions far beyond those they were qualified to fill. This has been true in all lines of engineering. Men who are competent to act merely as draughtsmen or surveyors, have been receiving wages nearly double what men in such positions were getting five or ten years ago.

The result of the readjustment now going on will be to make more places for the best men and allow them to advance faster than ever, while the less capable men, if they look at the matter

(Continued on page 3.)

MEMBERS GIVE TALKS.

New Plan Started by M. E. Society With Success.

Talks by members were the features of the Mechanical Engineering Society's meeting at the Union Monday evening. H. E. Allen 1908, on the construction of the railroad tunnel under the Hudson, S. H. Daddow 1908, on the development of the gas engine, and L. Loeb 1908, on the recent Quebec bridge disaster, were the speakers.

Prof. Lanza also spoke of the value derived from preparing and giving talks and advocated that in the future the majority of the student's meeting society's meetings be given up to student talks.

1910 AND 1911 PHOTOS ON SALE.

Relay and Football Pictures Secured by THE TECH.

THE TECH has secured prints of the Sophomore relay team and Freshman football team, that of the former being reprints of the photograph appearing in the special Field Day issue. These prints are on sale at the Cage, and at the table with THE TECH. The price is 50 cents each.

This will be the only opportunity for the Freshmen to secure a picture of the 1911 team as no other photograph of the team will be taken this year.

Dean Burton will be the guest of the Technology Alumni Association of New Bedford at its annual dinner tomorrow night, Dec. 5.

1909 WINS FIRST CLASS FENCING MEET.

1911 TAKES SECOND PLACE.

Grubnau 1909 Won Ribbon For Individual Superiority.

1909 won the first interclass meet of the fencing club Monday evening with 15 bouts to their credit, 1911 was second with 8, 1910 third with 4. V. C. Grubnau 1909 won the ribbon for individual superiority, showing excellent form and winning all his bouts.

The juniors were in the lead from the start. The team was V. C. Grubnau, M. Nickerson and R. Chinchilla. Chinchilla showed the excellent form derived from several years' experience. Nickerson's work was characterized by an almost impenetrable defence. Grubnau is a new man this year and has developed remarkably by consistent training, and should stand a good show for the varsity.

The 1911 team was made up of W. Jones, L. G. Glazier and W. Doane, Jones made up in speed what he lacked in form, and won half of the 1911 points.

The sophomore team consisted of R. Gallegos, D. Clapp, and B. Jones. Gallegos has had a lot of experience and was the mainstay of the team. The work of D. Clapp, who has only recently come out, was a surprise.

In addition to the interclass work Mr. P. Cushing, an outside expert, fenced a four-minute bout with foils against F. J. Lange 1909, and Capt. Loring fenced Lange with foils in the speediest bout of the evening.

In a four-minute duelling sword bout Gallegos 1910 defeated Mr. Cushing, winning out by greater endurance. The final bout was Capt. Loring and Mr. Cushing with duelling swords, the latter winning by one point. The contestants were evenly matched and brought applause from the audience time and again.

Summary of bouts:

1st bout—Doane 1911 defeated B. Jones 1910.

2d bout—W. B. Jones 1911 defeated Chinchilla 1910.

3d bout—Nickerson 1909 defeated Gallegos 1910.

4th bout—Glazier 1911 defeated Clapp 1910.

5th bout—Grubnau 1909 defeated Doane 1911.

6th bout—Chinchilla 1909 defeated B. Jones 1910.

7th bout—Gallegos 1910 defeated W. B. Jones 1911.

8th bout—Nickerson 1909 defeated Glazier 1911.

9th bout—Grubnau 1909 defeated Clapp 1910.

10th bout—Chinchilla 1909 defeated Doane 1911.

11th bout—W. B. Jones 1911 defeated B. Jones 1910.

12th bout—Gallegos 1910 defeated Glazer 1911.

13th bout—Nickerson 1909 defeated Clapp 1911.

14th bout—Grubnau 1909 defeated W. B. Jones 1911.

15th bout—Gallegos 1910 defeated Doane 1911.

16th bout—Nickerson 1909 defeated B. Jones 1910.

17th bout—Chinchilla 1909 defeated Glazier 1911.

18th bout—W. B. Jones 1911 defeated Clapp 1910.

19th bout—Grubnau 1909 defeated B. Jones 1910.

20th bout—Nickerson 1909 defeated Doane 1911.

21st bout—Doane 1911 defeated Clapp 1910.

22d bout—Grubnau 1909 defeated Glazier 1911.

2d bout—Gallegos 1910 defeated Chinchilla 1909.

24th bout—W. B. Jones 1911 defeated Nickerson 1909.

25th bout—Glazier 1911 defeated B. Jones 1910.

26th bout—Grubnau 1909 defeated Gallegos 1910.

(Continued on page 2.)

THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act. of Congress of March 3, 1879.

OFFICE HOURS.
Editor-in-Chief, 30 Rogers.....4 — 6 Daily
Business Manager, 30 Rogers.....4 — 6 Daily
Managing Editor, 30 Rogers.....8.30— 9 Daily

Contributions are requested from all undergraduates, alumni, and officers of instruction.

All communications regarding advertisements should be addressed to the Business Manager. Regarding subscriptions address the Circulating Manager.

Subscription - - - $1.50 per year in advance
Single Copies 3 Cents.

Subscriptions within the Boston Postal District and outside of United States must be accompanied by 86 cents.

Wednesday, December 4, 1907.

THE MAN, NOT THE SCHOOL.

Professor Swain in the closing paragraphs of his article on the civil engineering course has brought out two ideas that seldom occur to students at Technology.

The first is that the degree of a college means little, except as it denotes the achievement of a certain amount of work.

The reputation of the Institute at present is very high in engineering circles. Many students are drawn to the Institute by reason of its good name. These students in great part feel that a good portion of their success will be due to the reputation of the Institute.

This feeling that the Institute will entitle each graduate to be ranked as a high classed engineer is very false. The student should feel that the success is due to his own personal equipment and training, rather than to the standing that Technology gives him. The graduates should be such that they make the reputation of the Institute, rather than the Institute make the reputation for the graduate.

The second idea that the college gives an opportunity for a man to train himself, rather than the college trains the man is very seldom brought to the mind of the average student. A large portion of the student body at the Institute approach their work as they did the work in the primary school, rather as a necessary evil than a great opportunity to develop themselves.

The student should not come before the teacher as a lump of clay to be moulded into shape by labor on the part of the teacher. He should rather come as a live being, intent on moulding himself with the aid and direction of the teacher.

The non-success of a lecture system has been greatly due to the former attitude; that the students sit before a lecturer, and allow him to pour into their minds facts and fancies without question, without mental effort on their part. Probably it is due greatly to this attitude that the course in civil engineering has done away with lecture work and has brought about the system in which every student has to take part in the thinking.

Throughout the article Prof. Swain shows that in Course I great efforts have been made to do away with this evil of forcing the teacher to do most of the work and the student little.

1909 CHIVALRY.

All Hail to the most chivalrous of classes, 1909. All Hail to the class that recognizes the divine right of woman to act as an equal, and oftentimes a superior, to man. Down in the history of the Institute classes will 1909 shine as the one class who has recognized that woman has a right in the councils, in the great committees of action.

As Freshmen ,this redoubtable class gave no signs that it was to be a rank defender of woman's rights. But as the class coagulated, coalesced, as the Sophomoric ardor grew, then femininity entered. For the first time in the history of co-eds at Tech, one rose to the high office of secretary.

On the Technique ballot appeared the names of several girls. All of these that were known received a strong bold cross beside their names and woman entered the sacred councils of the Technique electoral committee.

A competition was arranged for the positions on the Technique art staff, but so gallant were the members that none would compete when the woman entered the lists. Else the woman was the best artist in the class. No other conclusions can be drawn for is not a woman at the head of the art staff of the great journal of this chivalrous class, and secretary of the governing board?

'Tis said, 'tis whispered that the board meetings of this great book are opened with prayer, and Chesterfieldian are the manners of the members thereof. How proud a thing this must be to the class of 1909 that over their board hangs not that cloud of saffron and cigarette that brooded over previous Technique boards.

But this is not all. Once more this class is to add another scroll to its collection in the Hall of Fame, for there is a girl nominee for the junior prom committee. Truly, in consistency, she should be elected. Truly, this gallant class should stand by its principles and elect the girl.

That woman's stronghold is society has always been recognized. Let 1909 recognize this and elect a girl to have a part in the arrangements of this greatest of Tech's society events. A woman's hand is needed in an event of this kind, a feminine taste in the flowers and decorations. Truly, the woman element is larger at the prom than the man; then must a woman be elected to the committee that has charge of the arrangements.

Then must come next year a woman president of the class of 1909, a female Senior president.

FACULTY NOTICES.

FOURTH YEAR.—The examination in hydraulic measurements will be held on Saturday, Dec. 7, from 2-4, in 50 Eng. A.

FOURTH YEAR students in geological surveying (871) will please leave their field map books and notes with the librarian at the geological library, 14 Pierce, on or before Saturday, Dec. 7. Beginning Dec. 5, the option 3 class will meet at 9 A. M. on Thursdays in 13 Pierce.

LECTURES in fourth-year economic geology (889) and 860 (non-metallic). Professor Kemp's lectures will be given on the following Mondays at 11 A. M. and 2.30 P. M., the afternoon hour being followed by an hour of conference from 3.30 to 4.30; the morning and afternoon lectures are both required for all members of the class: Dec. 2, 9, 16, Jan. 6, 13, Feb. 17, 24, March 2, 9, 16.

1809 WINS FENCING MEET.

(Continued from page 1.)

27th bout—Chinchilla 1909 defeated Clapp 1910.

Final score: 1909, 15 bouts; 1911, 8 bouts; 1910, 4 bouts.

Special bouts.

Four-minute bout with foils, Mr. P. Cushing and F. J. Lange. No decision.

Four-minute bout with foils, E. M. Loring and F. J. Lange. No decision.

Four-minute bout with duelling swords—Gallegos 1910 defeated Mr. P. Cushing, 8 points to 5.

Bout for five points, duelling swords —Mr. P. Cushing defeated E. M. Loring, 5 points to 4.

FOWNES GLOVES

mean right gloves—
so buy *Fownes* and save trouble.

"THE GIRLS ARE FOND OF THESE"

Tech Emblems

Greatest Variety
Lowest Prices

BENT & BUSH
15 SCHOOL ST. BOSTON, MASS.

BROWNING, KING & CO.
407-409-411 Washington St., Boston

OVERCOATS REDUCED
$15 $18 $20
for Coats that were $20 and $25

Bear in mind that your purchases here are subject to Cash Discount of 10%

THE GURNEY NATIONAL
IS THE MODERN
ELEVATOR
For Passenger and Freight Service
EXCELS ALL OTHERS IN SAFETY, RELIABILITY AND ECONOMY
W. S. TUBMAN, Agent
20 CENTRAL STREET, BOSTON, MASS.

OTIS ELEVATOR COMPANY
53 State Street, BOSTON
Electric and Hydraulic Elevators
ESCALATORS (Moving Stairways)

COPLEY SQUARE HOTEL
Huntington Ave. Exeter and Blagden Streets
PATRONAGE OF TECH" STUDENTS SOLICITED IN OUR CAFE AND LUNCH ROOM
The attention of Secretaries and Banquet Committees of Dining Clubs, Societies, Lodges, etc , is called to the fact that the Copley Square Hotel has exceptionally good facilities for serving Breakfasts, Luncheons or Dinners and will cater especially to this trade.
300 ROOMS. 200 WITH PRIVATE BATHS.
Amos H. Whipple, Proprietor

STONE & WEBSTER
84 STATE STREET, BOSTON
General Managers of
The Lowell Electric Light Corporation. The Seattle Electric Company. Puget Sound Electric Railway. Columbus Electric Company. Cape Breton Electric Company, Ltd. El Paso Electric Company. Jacksonville Electric Company. Ponce Electric Company. Paducah Traction and Light Company. Pensacola Electric Company. The Minneapolis General Electric Company. Edison Electric Illuminating Co. of Brockton. Houghton County Electric Light Company. Brockton and Plymouth Street Railway Company. The Houghton County Street Railway Company. Whatcom County Railway and Light Company. Savannah Electric Company. Dallas Electric Corporation. Northern Texas Electric Company. The Blue Hill Street Railway Company. Fort Hill Chemical Company. Tampa Electric Company. General Electro-Chemical Company. Houston Electric Company. Fall River Gas Works Company. Galveston Electric Company. The Key West Electric Company. Baton Rouge Electric Company. Puget Sound International Railway & Power Company.

C. A. PATTEN & CO.
Merchant Tailors
No. 43 TREMONT ST., Carney Bldg., BOSTON
OUR SPECIAL OFFER: FULL DRESS SUIT $45
Silk Lined Throughout

HOTEL BRUNSWICK
BOSTON
EUROPEAN AND AMERICAN PLANS
HERBERT H. BARNES, Proprietor

OUR $35 Tech Suits *Have No Equal*
CHARLES JACOBSON, Custom Tailor
Formerly with F. L. Dunne
We also do Naphtha or Steam Cleansing, also Monthly Pressing.
Newbury Building
111 MASSACHUSETTS AVE.

WM. READ & SONS

WM READ & SONS TRADE MARK BOSTON MASS

ATHLETIC OUTFITTERS

81 Years of Square Dealing

Wm. Read & Sons. Blue trade mark on your athletic goods is insurance against substitutions, means the finest quality at a fair price, means an absolute Guarantee on all you buy,

—OUR BASKET BALL—

Absolutely guaranteed to last the season, without ripping or getting out of shape.

ENGLISH LEATHER, ENGLISH MAKE.

LIBERAL DISCOUNT TO TECH MEN

WM. READ & SONS

Smullen & Co.

51 SUMMER ST.

Tailors

SPECIAL PRICES DURING NEXT THIRTY DAYS

ATHLETES ATTENTION!

¶ In order to obtain the best results in athletic contests, it is important that you should have the best implements. They may cost a trifle more, but it pays. Many a match has been lost by the use of poor tools, so why not have the best Tennis Racket and Ball, Foot Ball, Basket Ball, Running Shoes, Skates, Hockey Sticks, Sweaters, Jerseys. etc. Our goods have character — our trade-mark means something.

Send for our Catalogue. It is free to any address

WRIGHT & DITSON

344 Washington Street, Boston
18 West 30th Street, New York

Chicago Providence, R. I. Cambridge, Mass.

MAKER TO WEARER

THE SPHINX $2.00 HAT

412 WASHINGTON ST. BOSTON

FALL STYLES

DINING ROOM

23 ST. BOTOLPH STREET

Popular Prices. Special Attention to "Tech Men." Try our Course Lunch 25c.

W. H. PRIDHAM

EAGLE SILK LABEL MFG. CO.

DESIGNERS AND MAKERS of Silk, Linen, Cotton, & Paper Labels

FOR ALL PURPOSES

BEAUTIFUL INITIALS FOR CLOTHING

180-188 Washington St., Boston, Mass., U.S.A.

Floral Designs a Specialty

Flowers and Plants at Reasonable Prices

FINE, The Florist

202 Dartmouth St., Boston, Mass.
Telephone, 1521-3 Back Bay

Fresh Violets Three Times a Day

ASK ANY COLLEGE MAN ABOUT

COES & YOUNG'S SHOES

20 SCHOOL STREET, - BOSTON

"SUCCESS IS DUE TO THE MAN."

(Continued from page 1.)

rightly, may also be benefited by the additional spur which will be imposed upon them to "make good." The past few years, in fact, have been rather demoralizing, because any young man, no matter how inefficient, has been able to get a good job.

The graduate from Course I should make up his mind that the best thing for him to do is to start at the bottom of the practical ladder. The Institute does not pretend to turn out engineers, but endeavors to give to graduates the foundation upon which they can build and become engineers.

The man who begins at the bottom, with a good concern, at small wages, and who sticks to his job, will find himself well settled and in a good permanent position by the time he reaches middle life, with ample prospects before him.

The man who begins too high and who does not learn his business from the bottom up, will be very likely to fluctuate from place to place and will be subject to many vicissitudes. One great trouble with most graduates is that they expect to advance too rapidly, and are unwilling to take the time and to show the patience necessary to thoroughly master any business and identify themselves with it.

The aim of a graduate of Course I may be either to practice as a consulting engineer or to connect himself with one of the large industrial establishments, or with some public work; and even if he wishes to become a consulting engineer, he should first devote himself to gaining practical experience either with some corporation, with some consulting engineer, or in some public work.

This period of experience should be long enough to give him a thorough grounding in the practical and theoretical aspects of the branch of the profession which he desires to pursue, and he should not start in on his own account, in general, before he has reached the age of thirty-five or forty.

Almost any of the fields in civil engineering offer brilliant prospects. Public works of greater magnitude than ever before are now being carried on. Questions of urban transportation, the water supply of our communities, the disposal of sewage:—problems like these are being solved on a large scale, and the increasing growth of our cities guarantees the continuance of these conditions and a large demand for engineers in the future to carry on these works.

Our large corporations, too, realize more and more the value of the trained man. The structural engineer is in demand as never before, and extensive railroad improvements, in double-tracking, building new terminals, and in many other ways, will bring about in years to come an increasing demand for the services of the civil engineer. Administrative positions are also opening to him more and more.

The essential point for the graduate to bear in mind is this: first, that he should choose the branch of the profession in which he feels the most interest and for which he believes that his capabilities best fit him; second, he should be willing to go through a thorough apprenticeship in this branch, beginning at the bottom and advancing slowly and surely.

I think it may fairly be said that in the opinion of the engineering profession the Institute holds a very high rank as a training school. In competitive examinations for public positions in the past, Institute men have in general shown up a little better than the men from any other school.

In a recent competitive examination for an important position, an Institute man stood first, a Cornell man second, another Cornell man third and an Institute man fourth. The latter now holds the position, the first three having declined it.

The Civil Engineering department has turned out a large number of men who have become eminent in their profession. It would be invidious to mention names, but in the list are included consulting engineers, chief engineers of important railroads, railroad presidents and managers, chief engineers of some of the most important public works now being carried on, and men high in position with the great industrial corporations.

It should be borne in mind, however, that these men would have probably succeeded in life even if they had had no technical training. Success is due, primarily, to the man and not to the institution.

A degree from a reputable school is a great help to a man at the beginning of his career, especially if times are dull, positions hard to obtain, and if the man in question can secure also the personal endorsement of the teachers who knew him; but probably no collegiate degree is of any use to a man in his profession after he has been ten years out of school.

The college offers a man an opportunity to train himself in those mental, moral, and physical qualities which will bring him success. Let each student see to it that he avails himself of his opportunities to the utmost and success will then be within his grasp.

GEO. F. SWAIN.

1906 CHANGES OF ADDRESS.

M. B. Ashmore, 3 East 25th St., Minneapolis, Minn.

H. P. Barnes, Chappaqua, N. Y.

E. B. Bartlett, 420 Jefferson St., Milwaukee, Wis.

G. W. Burpee, P. O. Box 393, Brockton, Mass.

E. S. Campbell, Carnegie Technical School, Pittsburgh, Pa.

W. B. Clifford, 781 Eastern Parkway, Brooklyn, N. Y.

DAVID W. EDWARDS, Jr.

Tailor

Removed to 420 Boylston Street BOSTON

Telephone, Back Bay 3535-3

PAJAMAS NIGHTROBES HOSIERY

FANCY VESTS in Flannels and Oxfords

PLAZA OUTFITTERS

431 Columbus Ave. next door to Hotel Plaza

THE SEVEN BARBERS

Everyone an Artist

987 BOYLSTON ST., near MASS. AVE.

Special attention given to Tech Students

HERRICK TICKETS ALL THEATRES

Copley Square

Telephone

2329, 2330 and 2331 Back Bay

KANRICH'S ORCHESTRA

The best musicians for Dinners, Dances, Theatricals, Receptions, Etc. Music arranged for Orchestra.

ALBERT M. KANRICH

164 A TREMONT STREET

THE STUDENT'S DRUG STORE

UNDER COPLEY SQUARE HOTEL

We make a special effort to merit the patronage of our student friends . . . . . .

Don't forget the address — under Copley Square Hotel

VISIT

THE NEW STORE

222 CLARENDON ST.

BUILT ESPECIALLY FOR YOU

Drafting Instruments, Papers, Tracing Cloth, Triangles, T Squares, Slide Rules, Pencils, Etc., Paints, Varnishes, Hardware

AT LOWEST PRICES

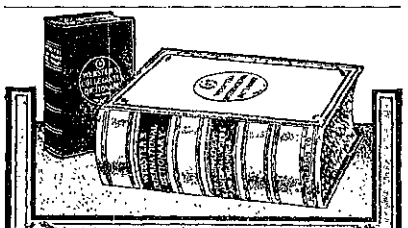
ALSO AT

82 and 84 Washington Street

CATALOGUES FREE

Wadsworth, Howland & Co.

INCORPORATED



WEBSTER'S INTERNATIONAL DICTIONARY

A LIBRARY IN ONE BOOK.

Besides an accurate, practical, and scholarly vocabulary of English, enlarged with 25,000 NEW WORDS, the International contains a History of the English Language, Guide to pronunciation, Dictionary of Fiction, New Gazetteer of the World, New Biographical Dictionary, Vocabulary of Scripture Names, Greek and Latin Names, and English Christian Names, Foreign Quotations, Abbreviations, Metric System.

2380 Pages. 5000 Illustrations.

SHOULD YOU NOT OWN SUCH A BOOK?

WEBSTER'S COLLEGIATE DICTIONARY. Largest of our abridgements. Regular and Thin Paper Editions. 1116 Pages and 1400 Illustrations.

Write for "The Story of a Book"—Free.

G. & C. MERRIAM CO., Springfield, Mass.

DAVID J. FOX

Hatter and Haberdasher

LAUNDRY RETURNED IN TEN HOURS

Up-to-date Novelties in Men's Furnishings

Corner CHANDLER & DARTMOUTH STS.

Special attention to Tech Men

DONARA
AN ARROW
Clupeco Shrunk Quarter Size Collar
15 cents each, 2 for 25 cents
CLUETT, PEABODY & CO.
Makers of Cluett and Monarch Shirts

LANDER'S

LUNCH AND COFFEE HOUSE

25 YEARS EXPERIENCE

20 Huntington Avenue, near Copley Square

ALSO AT 46 HIGH STREET

TELEPHONE 5319-1 BACK BAY BOSTON

W. M. ROWAN

"THE TECH BARBER"

Westminster Hotel . . St. James Ave.

SPECIAL TO STUDENTS

HAIR CUT 25 CENTS SHAVE 15 CENTS

J. MAKLAUSKY

Tailor

Opposite Victoria and Vendome Hotels

Nothing too small for my strict attention and nothing too high for my capability

145 Newbury St. Tel. 3059-4 B. B.

THE TECH TAILORS
REDUCTION UNTIL DEC. 15
OUR $40.00 SUIT OR OVERCOAT FOR $30.00
A. H. MATZ & CO.
32 HUNTINGTON AVENUE TELEPHONE 1336-3 B. B.

College Clothes
Many new and exclusive styles for young men, hand tailored by the best craftsmen.
A. SHUMAN & CO.
BOSTON

GENTLEMEN
WHO DRESS FOR STYLE NEATNESS, AND COMFORT WEAR THE IMPROVED
BOSTON GARTER
THE RECOGNIZED STANDARD
The Name is stamped on every loop—
The Velvet Grip CUSHION BUTTON CLASP
LIES FLAT TO THE LEG—NEVER SLIPS, TEARS NOR UNFASTENS
Sample pair, Silk 50c., Cotton 25c. Mailed on receipt of price.
GEO. FROST CO., Makers Boston, Mass., U. S. A.
ALWAYS EASY

Chamberlain's

Beaconsfield Derby $3
Revelation Derby $2
Latest English Shapes From Imported Cloths.
CAPS, $1.00
TWO STORES
637 Washington St. corner Boylston St.
663 Washington St. opposite Beach St.

H.P.HOOD & SONS MILK TRADE MARK
Healthy Cows
Scrupulous care in milking—hygienic methods in handling—freedom from adulteration—cool temperature—a richness in cream—a fineness in flavor—these are your safeguards and the means by which HOOD'S MILK brings health and happiness into 70,000 homes.
H. P. HOOD & SONS
494 Rutherford Ave. 'Phone Ch's'n 600

CALENDAR.

Wednesday, December 4.

6.00 P. M. Civil Engineering Society Dinner at the Union.
8.00 P. M. Track Meet at the Park Square Rink.
8.30 P. M. Lecture by Mr. Worcester before Civil Engineering Society at the Union.

Thursday, December 5.

1.00 P. M. Rifle Club Meeting in 33 Rogers.
1.30 P. M. Y. M. C. A. Meeting in Trinity Parish Hall.
4.00 P. M. Banjo Club Rehearsal in 33 Rogers.
4.00 P. M. Glee Club Rehearsal at the Union.
7.30 P. M. Electrical Engineering Society Smoker at the Union.
8.00 P. M. Society of Arts Meeting in 23 Walker.

Friday, December 6.

1.00 P. M. Hockey Meeting in 26 Rogers.
4.15 P. M. Mandolin Club Rehearsal in 31 Rogers.
7.05 P. M. Musical Clubs Leave South Station for Concert at Abington.

NOTICES.

1910 relay team will have pictures taken Saturday, Dec. 7, at Jordan's studio, 289 Boylston St., at 1.00 P. M.

RIFLE CLUB.—Meeting tomorrow at 1 P. M. in 33 Rogers. All members interested in gallery shooting should attend.

HOCKEY TEAM.—A meeting of the hockey team and candidates will be held at 1.00 P. M. Friday, Dec. 6, in 26 Rogers,

MUSICAL CLUBS.—Members of the Banjo, Mandolin and Glee Clubs will leave South Station for Abington Concert, Friday night, on 7.05 train. This train does not stop at Back Bay.

Y. M. C. A.—Dr. Alexander will give the last of his series of talks to the Y. M. C. A. to-morrow, in the library of Trinity Church. All Tech men are welcome at these meetings to hear good speakers and enjoy a half hour rest.

CIVIL ENGINEERS.—The civil engineering society will dine at the Union tonight at 6 P. M. Mr. J. R. Worcester, consulting engineer of the Boston Elevated Railway, will speak at 8. 30 Members of all other courses are cordially invited to attend the evening lecture.

FENCING.—Candidates for assistant manager of the fencing team report at the fencing rooms, 22 St. Botolph Street, at 5 P. M. Dec. 4th. It is important that all those who have intentions of trying for the position be present as instructions for work will be given.

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

WANTED AT ONCE.—Agents for the Red Dwarf Ink Pencil. Apply any noon at Room 30, Rogers.

WANTED AT ONCE.—Copies of the first six volumes of Technique in good condition. State price. Box 52, The Cage.

TO LET.—A bright front parlor with two smaller rooms connected, nicely furnished. Just the thing for two to four students. Rent low. 36 Falmouth St., Suite 2.

HALL & HANCOCK CO.
Hats and Furs
THE STANDARD OF STYLE AND EXCELLENCE
420 WASHINGTON ST.

COES & STODDER
FOR FOURTEEN YEARS
The Leading College Shoe House
14 SCHOOL STREET

UNDISPUTED
The biggest Advertisers of the country credit us with producing the strongest TALKING illustration for ADVERTISING. Are you WILLING to find out why?
MASSACHUSETTS ENGRAVING COMPANY
104 HANOVER STREET

McMORROW
College Shoes for College Men
238 Washington Street, Boston, Mass.
OPPOSITE YOUNG'S HOTEL

A·B·CURRIER·CO·
RELIABLE HATTERS
HEADQUARTERS FOR HATS
WASHINGTON & ELIOT STS. BOSTON

HIGGINS'
Drawing-Inks
Eternal Writing-Ink
Engrossing-Ink
Taurine Mucilage
Photo-Mounter
Drawing-Board Paste
Liquid Paste
Office Paste
Vegetable Glue, Etc.

Are the Finest and Best Inks and Adhesives. Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the *Higgins Inks and Adhesives.* They will be a revelation to you, they are so sweet, clean, and well put up.
At Dealers Generally.
CHAS. M. HIGGINS & CO., Mfgrs.
Branches: Chicago, London
271 Ninth Street, Brooklyn, N.Y.

MORSE & HENDERSON
Tailors
18 BOYLSTON STREET
Rooms 14-15
Telephone Oxford 99 BOSTON